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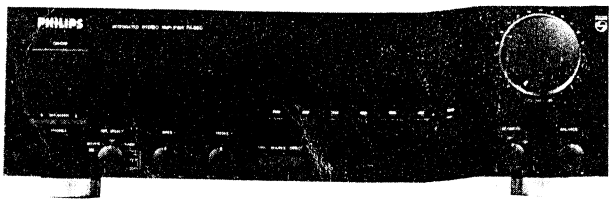

Service Manual

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Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agrées, seuls habilités à réparer votre appareil en panne".

Subject to modification
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CS 19 700

SPECIFICATION

General		Nominal value	Typical value
Mains voltage		: 220V ~ (/00R) : 110/120/220/240V ~ (/01R) : 240V ~ (/05R) : 120V ~ (/17R)	: 220V ~ (/00R) : 110/120/220/240V ~ (/01R) : 240V ~ (/05R) : 120V ~ (/17R)
Mains frequency		: 50 – 60 Hz	: 50 – 60 Hz
Power consumption		: 330W	: 330W
Dimensions (WxHxD)		: 420 x 118 x 334 mm	: 420 x 118 x 334 mm
Weight		: 10 kg	: 10 kg
Amplifier			
Output power		: 80W in 8Ω (IEC)	: 85W in 8Ω (IEC)
Distortion			
T.H.D.		: ⩽ 0.03% at 1 kHz : ⩽ 0.03% at 63 Hz – 12.5 kHz (IEC) : ⩽ 0.03% at 60/7000 Hz 4:1 (IEC)	: ⩽ 0.008% at 1 kHz : ⩽ 0.02% at 63 Hz – 12.5 kHz (IEC) : ⩽ 0.01% at 60/7000 Hz 4:1 (IEC)
Intermodulation			
Frequency characteristic			
Phono input	tone control	: from 20 Hz – 20 kHz ±1 dB (IEC/RIAA)	: from 20 Hz – 20 kHz ±0.5 dB (IEC/RIAA)
Other inputs	neutral	: from 10 Hz – 50 kHz ±1 dB	: from 10 Hz – 60 kHz ±1 dB
Bass control		: at 100 Hz +8 dB to –8 dB ±1 dB	: at 100 Hz +8 dB to –8 dB
Treble control		: at 10 kHz +8 dB to –8 dB ±1 dB	: at 10 kHz +8 dB to –8 dB
Loudness		: at 100 Hz +6 dB ±1 dB (Tap position) : at 10 kHz +4 dB ±1 dB (Tap position)	: at 100 Hz +6 dB (Tap position) : at 10 kHz +4 dB (Tap position)
Signal/noise ratio weighted (A-curve)			
Phono input	(MM)	: for 80W output ⩾ 80 dB (IEC)	: for 80W output ⩾ 83 dB (IEC)
	(MC)	: for 80W output ⩾ 70 dB (IEC)	: for 80W output ⩾ 72 dB (IEC)
Other inputs		: for 80W output ⩾ 85 dB (IEC)	: for 80W output ⩾ 89 dB (IEC)
Channel separation		: at 1000 Hz ⩾ 65 dB	: at 1000 Hz ⩾ 70 dB
		: at 250 Hz – 10 kHz ⩾ 45 dB	: at 250 Hz – 10 kHz ⩾ 55 dB
Input sensitivity/Input impedance			
Audio			
Phono	(MM)	: 2.5 mV/47 kΩ	: 2.5 mV/47 kΩ
	(MC)	: 250 μV/150Ω	: 250 μV/150Ω
Tuner/CD/Aux/Tape		: 150 mV/17 kΩ	: 150 mV/20 kΩ
TV/Video		: 150 mV/17 kΩ	: 150 mV/20 kΩ
Output level/Output impedance			
Tape		: 450 mV/590Ω (Phono 7.75 mV 1 kHz input)	: 450 mV/590Ω (Phono 7.75 mV 1 kHz input)

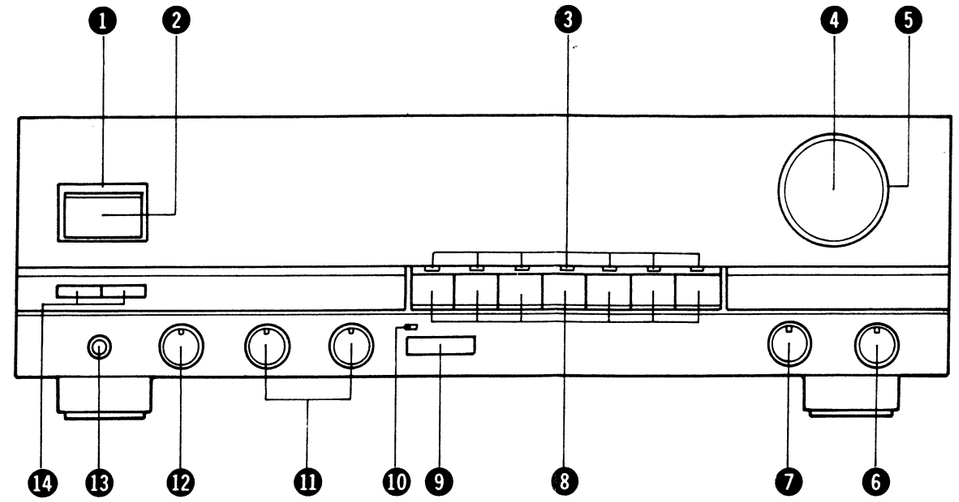
(GB)
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

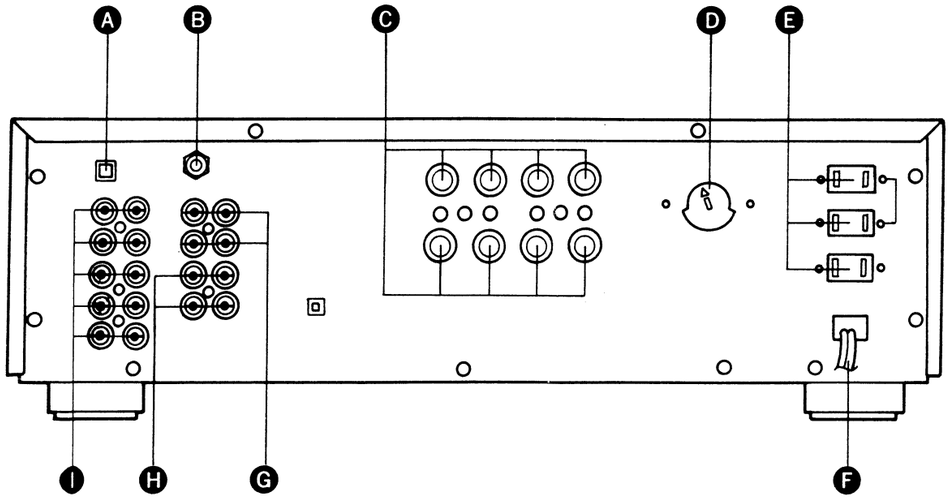
(NL)
Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

(D)
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)
Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambiago identici a quelli specificati.

(F)
Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.





CONNECTIONS AND CONTROLS

1	Mains indicator	VZ01
2	Mains switch	S901
3	Function indicator	DU01~DU05, DU09, DU10
4	Volume control	RG19
5	Volume illumination	VZ51, VZ52
6	Balance control	RE51
7	Loudness switch	SE51
8	Function switch	SU01~SU07
9	Source direct switch	SU09
10	Source direct indicator	DU07
11	Tone control	RE21, RE22
12	Rec selector switch	SE01
13	Headphone socket	JW81
14	LS switch	SW51

A	Phono selector switch		S401
B	Ground terminal		J053
C	LS output		JW01
D	Voltage selector	(/01R only)	J091
E	AC outlet	(/01R/17R only)	J051
F	Mains cord		W001
G	Tape 1 play/rec.		JJ01
H	DAT/tape 2 play/rec.		JJ02
I	Input		JV01, JV02

ADJUSTMENT

Idling Current

SK... SWITCH	SIGNAL	TO	VOLUME	ADJUST	OSCILLOSCOPE	D.C. METER INDICATOR
			Min.	Lch R751		Lch TP2(+), TP1(–) DC 7 mV (19.4 mA)
				Rch R752		Rch TP4(+), TP3(–) DC 7 mV (19.4 mA)

***Adjustment must be made approx. one (1) minute after power switch has been turned on.**

Carbon film 0.125 W or 0.2 W	70°C	5%	
Carbon film 0.25 W or 0.33 W	70°C	5%	
Metal film 0.25 W or 0.33 W	70°C	5%	
Carbon film 0.5 W	70°C	5%	
Carbon film 0.67 W	70°C	5%	
Carbon film 1 W or 1.15 W	70°C	5%	
Ⓒ Chip component			

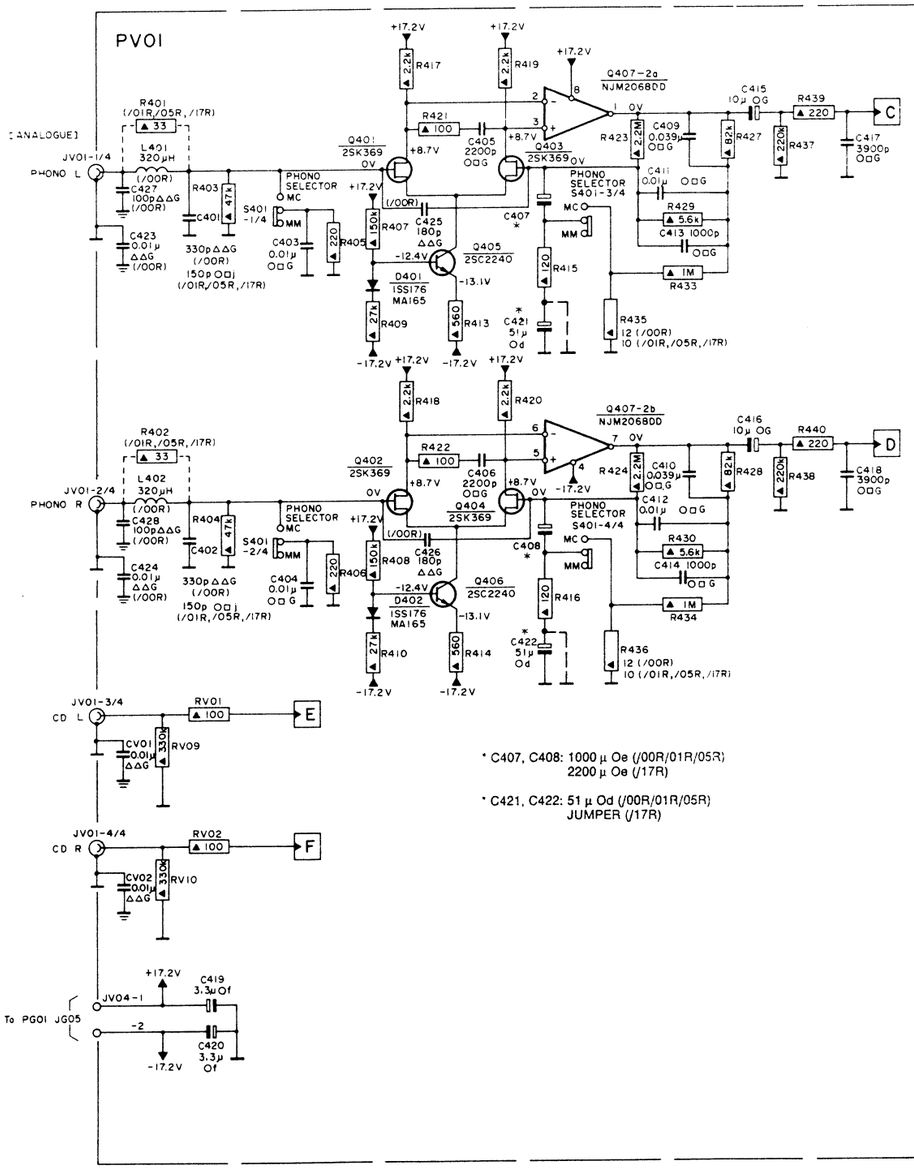
Ceramic plate Tuning ⩽ 120 pF NP.0		2%
Ceramic plate Others		–20/+80%
Polyester flat foil		10%
Metalized polyester flat film		10%
Polyester flat foil small size (Mylar)		10%
Polysterene film/foil		1%
Tubular ceramic		
Miniature single		
Subminiature tantalum		± 20%

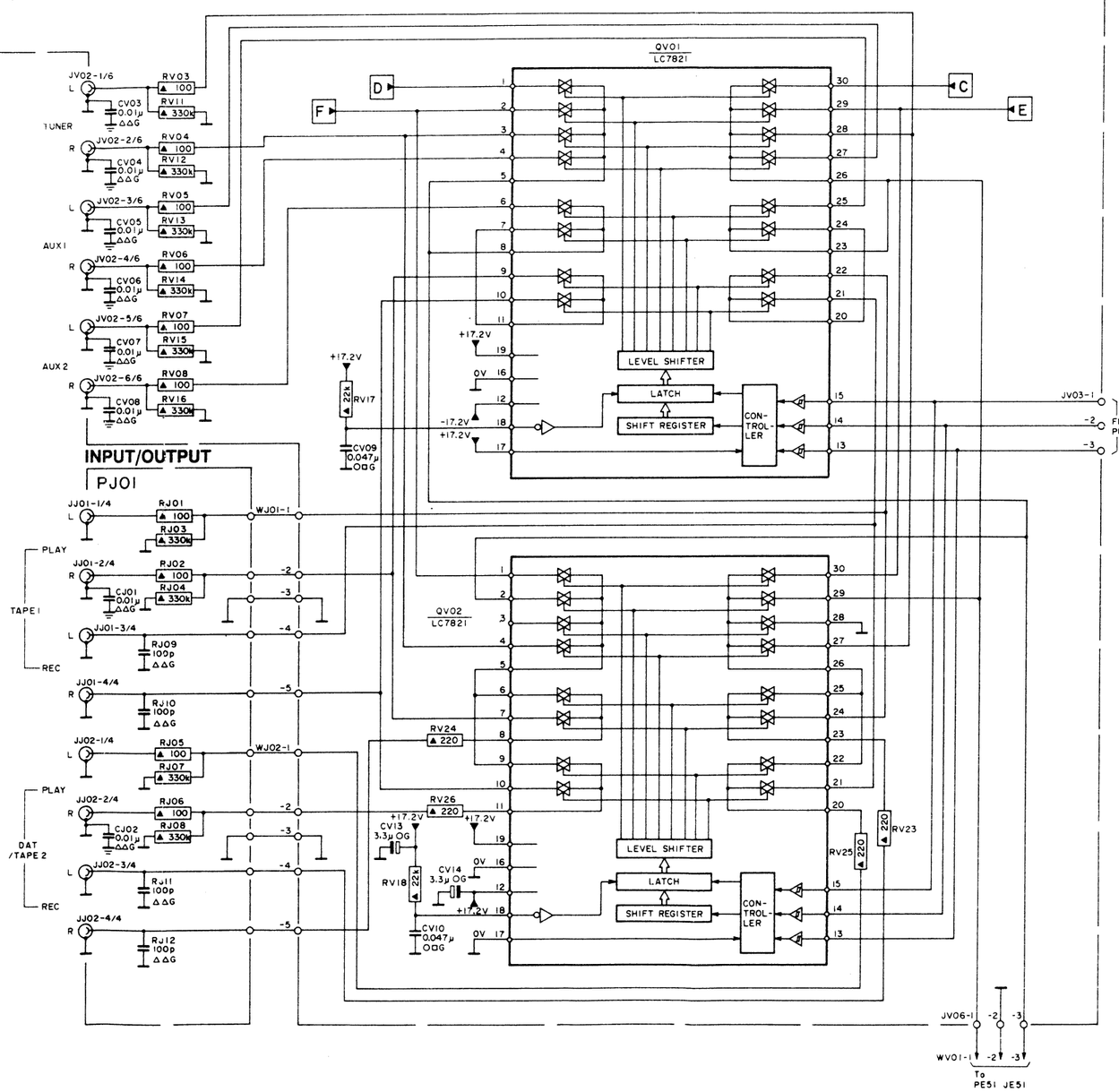
*a	2.5 V
b	3.15 V or 4 V
c	6.3 V
d	10 V
e	16 V
f	25 V
g	40 V
h	63 V
j	100 V
l	125 V
m	150 V
n	160 V
q	200 V
r	250 V
s	300 V
t	350 V
u	400 V
v	500 V
w	630 V
x	1000 V
A	1.6 V
B	6 V
C	12 V
D	15 V
E	20 V
F	35 V
G	50 V
H	75 V
I	80 V

SCHEMATIC DIAGRAM

R	RV09 RV10 R401 ~ R410 RV01 RV02	R417~R422 R413~R416	R423 R424 R433~R436 R427~R430 R437~R440	RV03~RV08 RV11~RV16 RJ01~RJ12	RV17 RV18 RV24 RV26	RV25 RV23	R
C	C423 C424 CV01 CV02 C401~C404	C425 C426 C405~C408 C421 C422	C409~C416 C417 C418	CV03~CV08 CJ01 CJ02	CV09 CV13 CV10 CV14		C
Q	C427 C428 C419 C420	Q401~Q407				QV01 QV02	Q
D-L-S	L401 L402	D401 D402 S401					D-L-S

INPUT/OUTPUT SELECTING





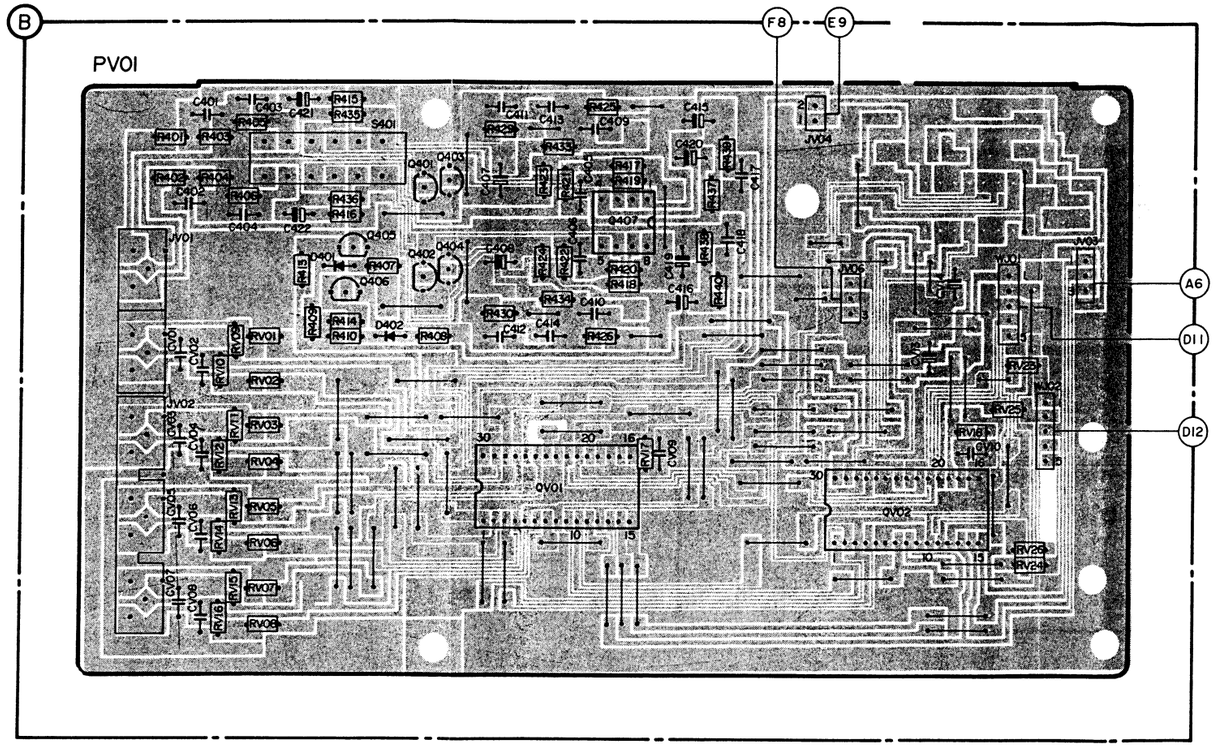
NOTE ON SAFETY:
Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ⚠. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

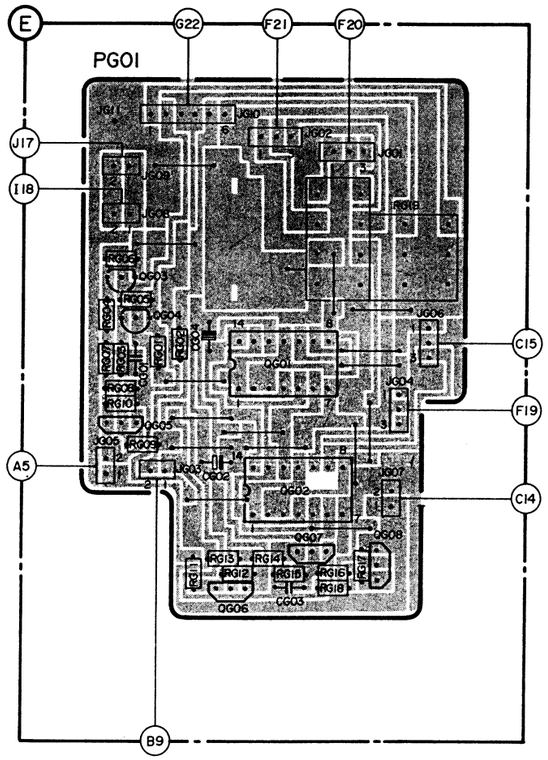
WIRING DIAGRAM

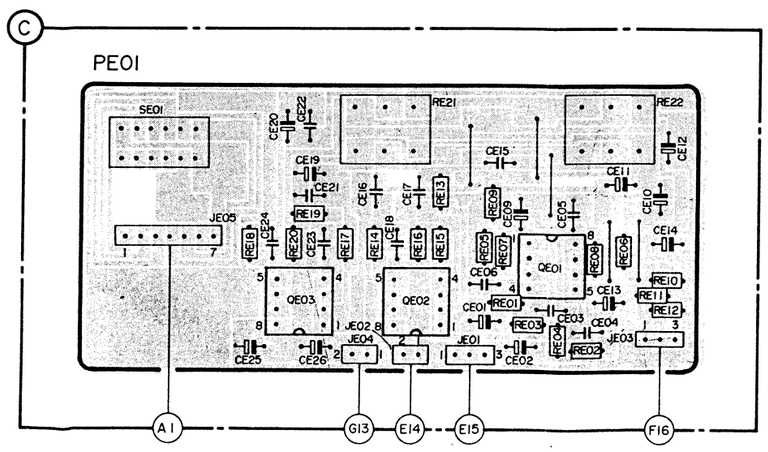
R	R401～R406 R413～R416 R407～R410 R429 R433 R417～R426 R437～R440 RG01～RG10 RV01～RV16 R435 R436 R430 R434 RV17 RV18 RV23～RV26 RG11～RG18 RG19 RE13～RE20 RE21 RE01～RE12 RE22 RJ01～RJ04 RJ05～RJ08 RE53～RE56 RE51	R
C	C401～C404 C421 C405～C414 C415～C420 CV13 CV14 CV10 CV01～CV08 C422 CV09 CE19～CE26 CE15～CE18 CE01～CE06 CE09～CE14 CJ02 RJ09 RJ10 CJ01 RJ11 RJ12 CE51～CE54	C
Q	Q401～Q406 QV01 Q407 QV02 QG03～QG05 QG01 QG02 QE03 QE02 QE01 QG06～QG08	Q
D	D401 D402	D
S	S401 SE51	S

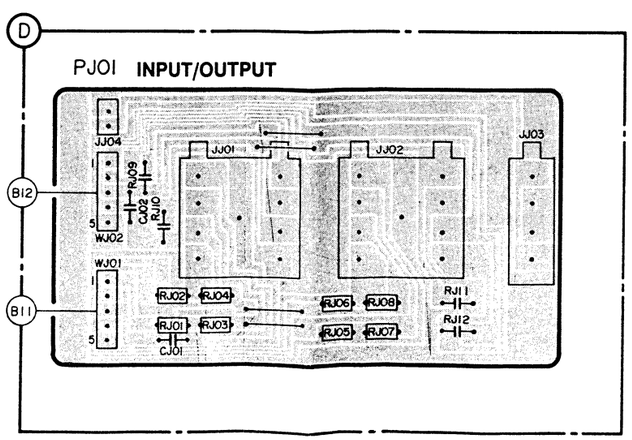
INPUT/OUTPUT SELECTING

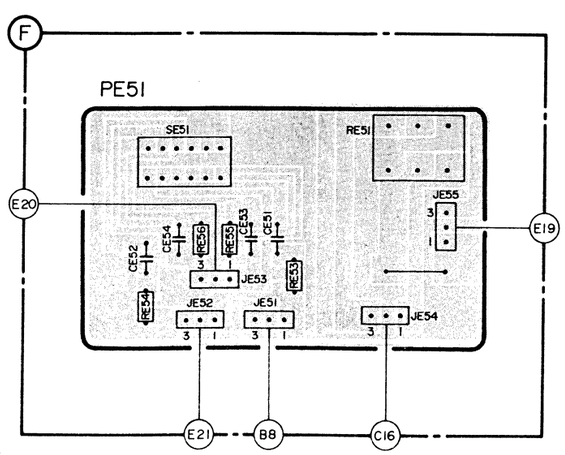
COMPONENT SIDE VIEW







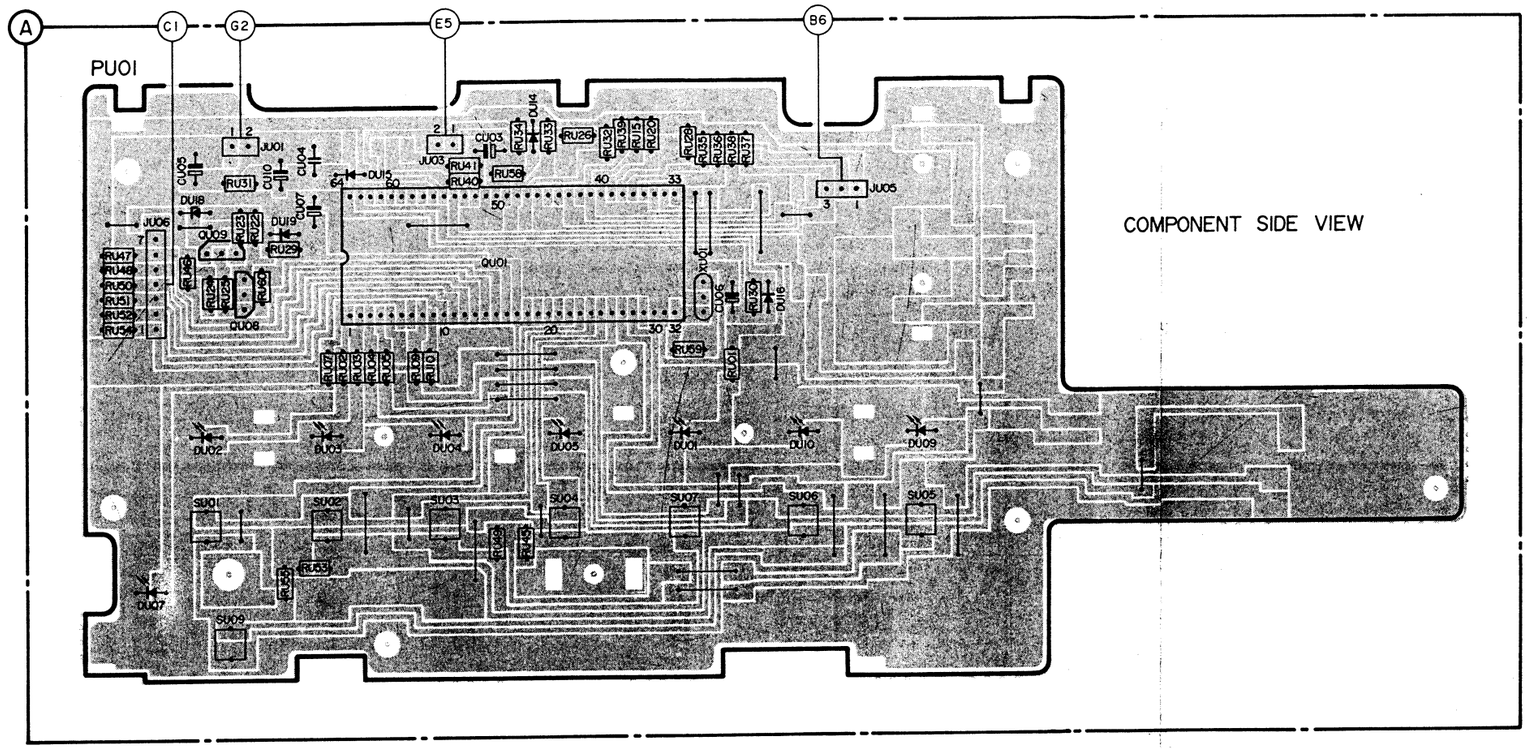




WIRING DIAGRAM

R	RU46～RU48 RU31 RU29 RU07 RU02～RU05 RU09 RU10 RU41 RU40 RU58 RU32～RU34 RU15 RU20 RU28 RU35～RU39	R
	RU54 RU50～RU52 RU22～RU25 RU60 RU55 RU53 RU49 RU45 RU26 RU59 RU01 RU30	
C	CU05 CU10 CU04 CU07 CU03 CU06	C
Q	QU09 QU08 QU01	Q
D	DU07 DU18 DU02 DU19 DU03 DU15 DU04 DU14 DU05 DU01 DU16 DU10 DU09	D
S－X	SU01 SU09 SU02 SU03 SU04 SU07 XU01 SU06 SU06	S－X

MICROPROCESSOR/CONTROL/LED INDICATION



Semiconductor Layout

RL103E
DSF10C

2SK369

2SC2458 2SA1048

2SB1274

HSS81TD

S5566G

2SD1913

NJM7806FA

TA7317P

LT3D8B

2SA1145 2SC2705

2SA970 2SC2240 2SC2878

RD5.6JB2/MTZJ5.6B
MTZJ3.0B

1SS254
1SS176
MA165

LC7821

LC6554H

2SC3419

2SC3280 2SA1301

2SA1306 2SC3298

NJM4558D-D

LC4966

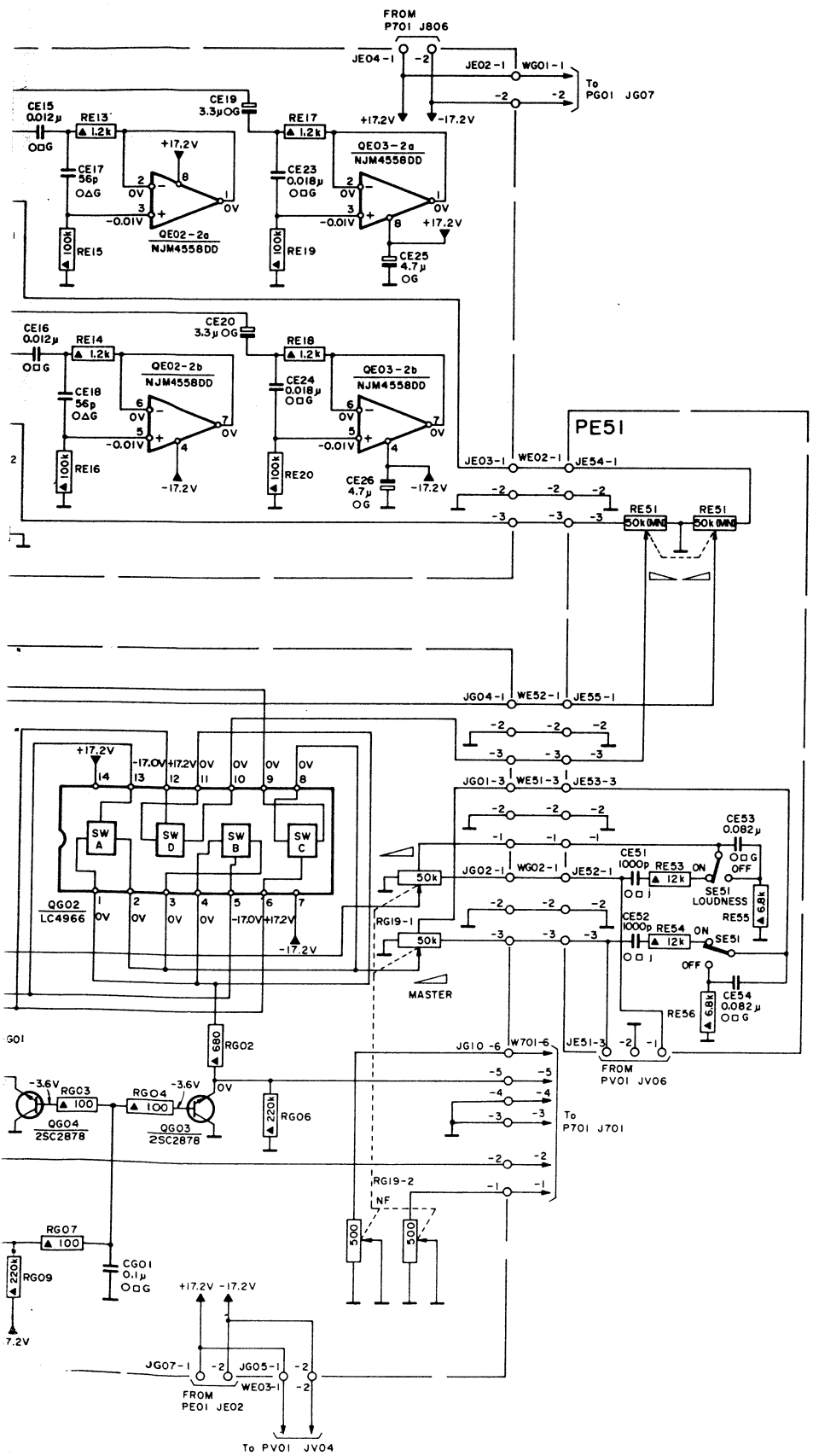
NJM2068DD

BR82

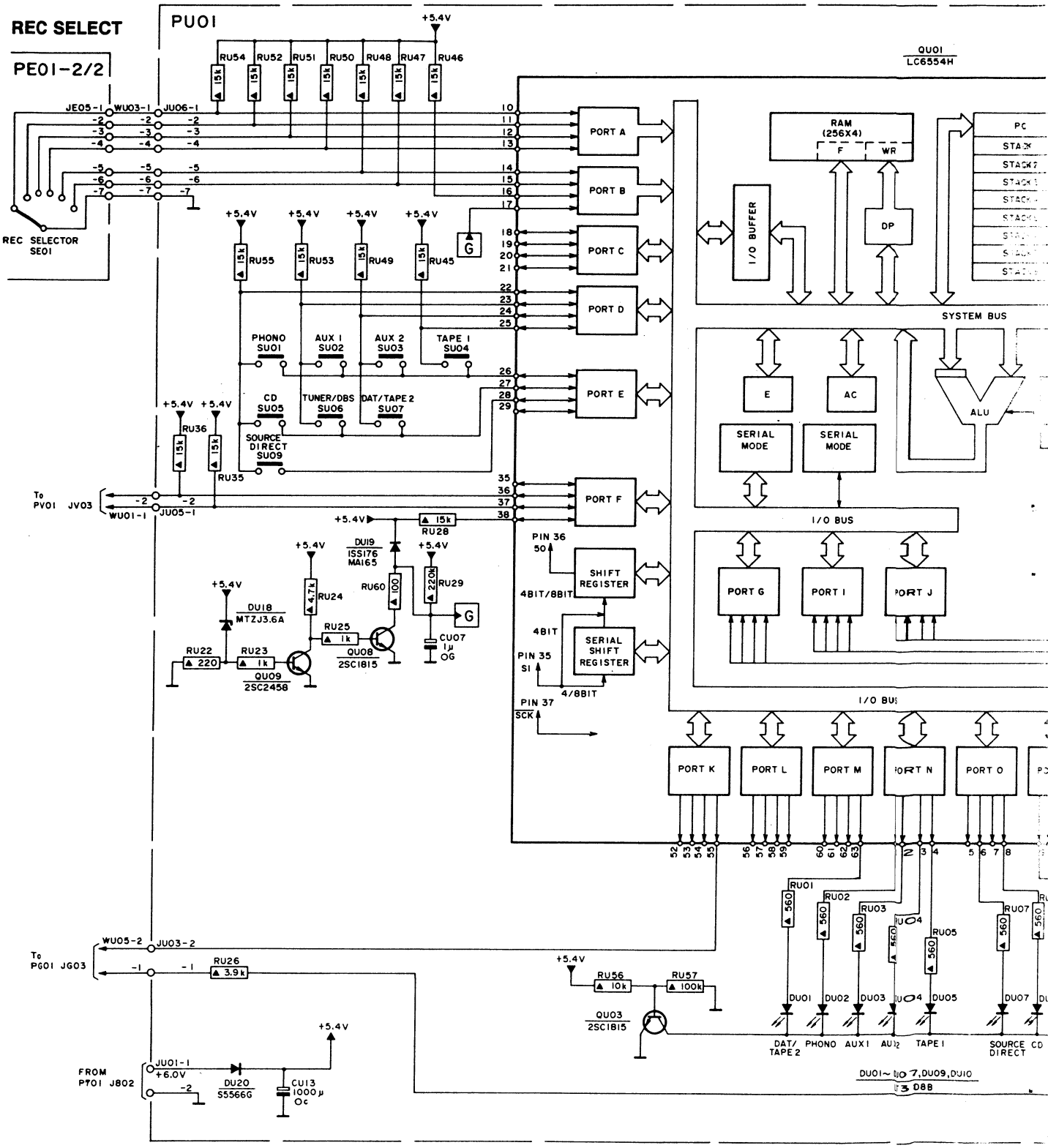
SCHEMATIC DIAGRAM

| | | |

	RE13~RE20		RE51	R
	RG01~RG09	RG19	RE53~RE56	
E18	CG01	CE19 CE20 CE23~CE26	CE51~CE54	C
			SE51	D-S
QG02~QG04	QE02	QE03		Q-L-X



R	RU36 RU35 RU45~RU55	
	RU22~RU26 RU60 RU29 RU56 RU57 RU01~RU05 RU07	RU09
C	CU13 CU07	
D-S	SE01 DU18 DU20 SU01~SU07 SU09 DU19 DU01~DU05 DU07	DU09
Q-L-X	QU09 QU08 QU03 QU01	



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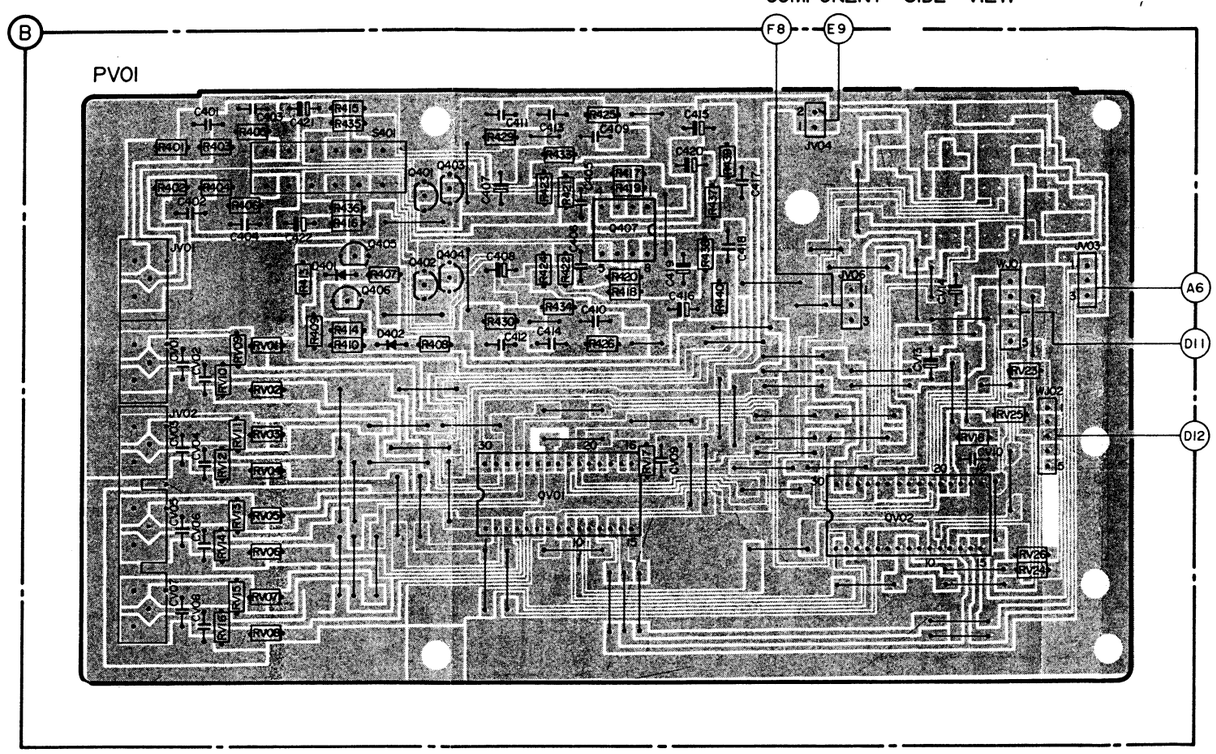
SCHEMATIC DIAGRAM

| | | |

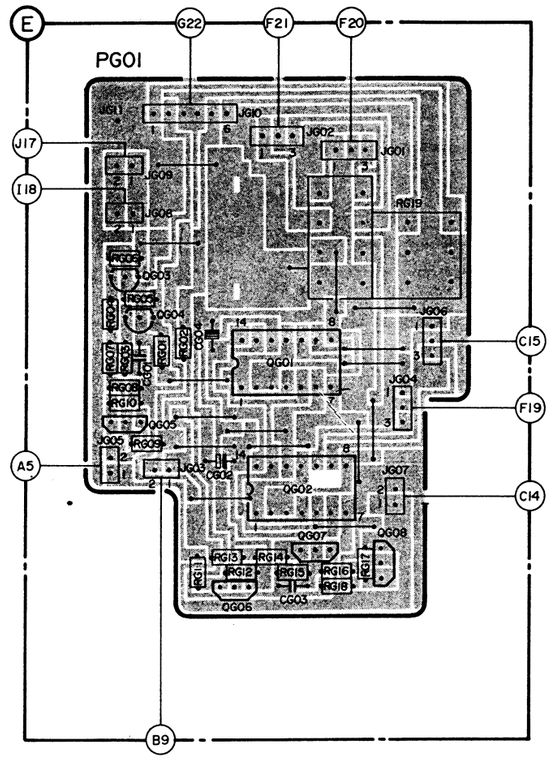
WIRING DIAGRAM

R	R401～R406 R413～R416 R407～R410 R429 R433 R417～R426 R437～R440 RG01～RG10	R
	RV01～RV16 R435 R436 R430 R434 RV17 RV18 RV23～RV26 RG11～RG18 RG19	
	RE13～RE20 RE21 RE01～RE12 RE22 RJ01～RJ04 RJ05～RJ08 RE53～RE56 RE51	
C	C401～C404 C421 C405～C414 C415～C420 CV13 CV14 CV10	C
	CV01～CV08 C422 CV09	
	CE19～CE26 CE15～CE18 CE01～CE06 CE09～CE14 CJ02 RJ09 RJ10 CJ01 RJ11 RJ12 CE51～CE54	
Q	Q401～Q406 QV01 Q407 QV02 QG03～QG05 QG01 QG02	Q
	QE03 QE02 QE01 QG06～QG08	
D	D401 D402	D
S	S401 SE51	S

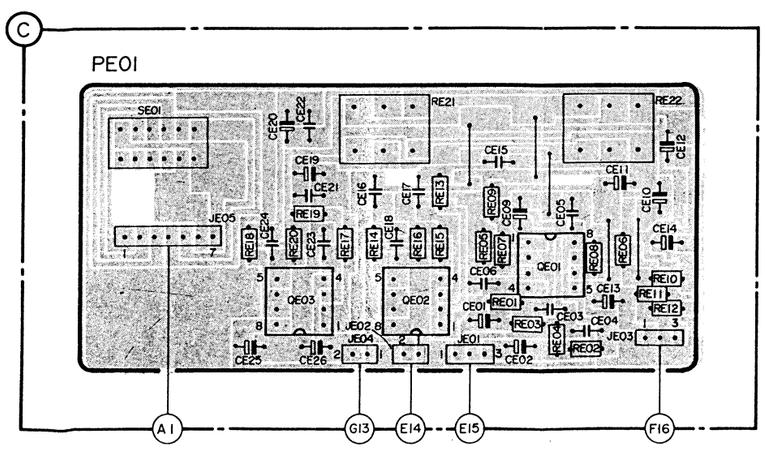
COMPONENT SIDE VIEW

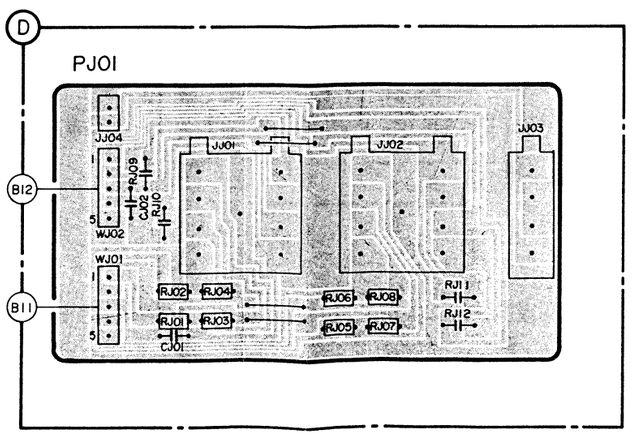


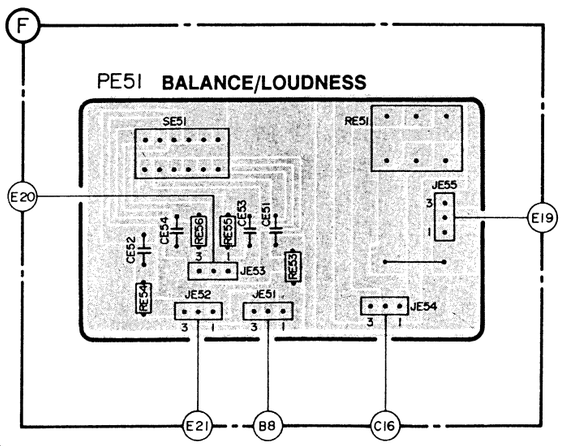
VOLUME CONTROL



REC SELECT/BASS/TREBLE





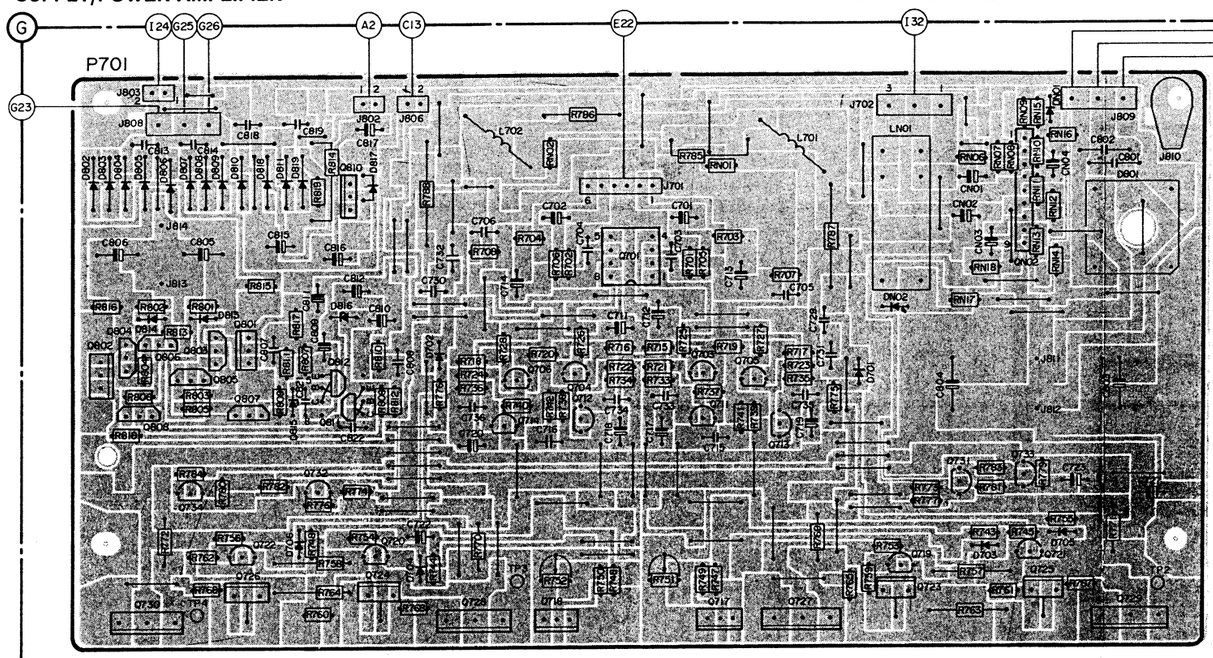


WIRING DIAGRAM

R	R816 R818 R801～R806 R815 R817 R819 R814 R807～R812 R788 R708 RN02 R786 R701～R707 R785 RN01 R787 RN06～RN18	R
	R813 R784 R780 R782 R776 R774 R764 R760 R776 R718 R724 R736 R728 R740 R720 R742 R738 R726 R716 R722 R734 R715 R721 R733 R727 R717 R723 R735 R201 R202 R773 R777 R783 R781 R779	
	R772 R762 R768 R756 R748 R758 RW81 RW81 RW82 R754 R768 R744 R770 R747～R752 R725 R737 R719 R741 R739 R769 R775 R765 R759 R753 R757 R763 R761 R743 R745 R755 R767 R771	
C	C806 C813 C805 C814 C818 C815 C819 C816 C807～C812 C817 C730 C732 C706 C701～C704 C711～C714 C705 C729 C731 C804 CN01～CN04 C801～C803	C
	C821 CW02 CW04 C822 C722 C736 C720 C716 CW01 CW03 C734 C718 C717 C733 C715 C735 C719 C723 C727	
Q	Q801～Q808 Q811 Q812 Q810 Q703～Q706 Q701 Q711～Q714 QN02	Q
	Q730 Q734 Q726 Q722 Q732 Q724 Q720 Q728 Q718 Q717 Q727 Q719 Q723 Q731 Q733 Q725 Q721 Q729	
D	D802～D811 D814 D813 D818 D819 D815 D706 D816 D817 D704 D702 D701 DN02 D703 D705 D801	D
F-L-S-V-W	L702 L701 LN01 VZ01 SW51 WO01 VZ51 VZ52 LO01 FO01	F-L-S-V-W

SUPPLY/POWER AMPLIFIER

COMPONENT SIDE VIEW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RN16
RN17
RN18
D701
D702
D703
D704
D705
D706
D801
D802
D803
D804
D805
D806
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D811
D812
D813
D814
D815
D816
D817
D818
D819
Q701
Q702
Q703
Q704
Q705
Q706
Q707
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Q719
Q720
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Q722
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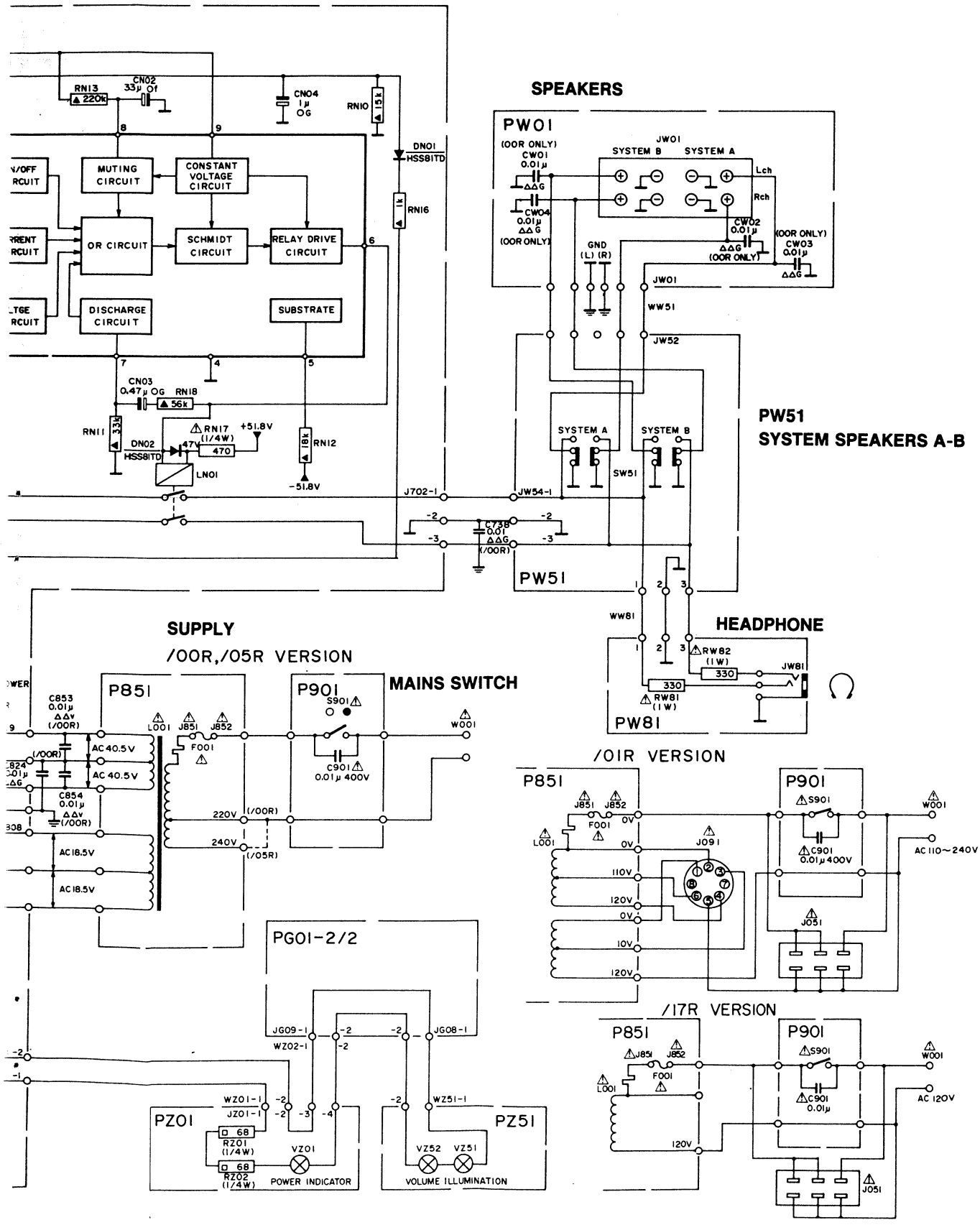
Q724
Q725
Q726
Q727
Q728
Q729
Q730
Q731
Q732
Q733
Q734
Q735
Q736
Q737
Q738
Q739
Q740

NOTE ON SAFETY:
Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

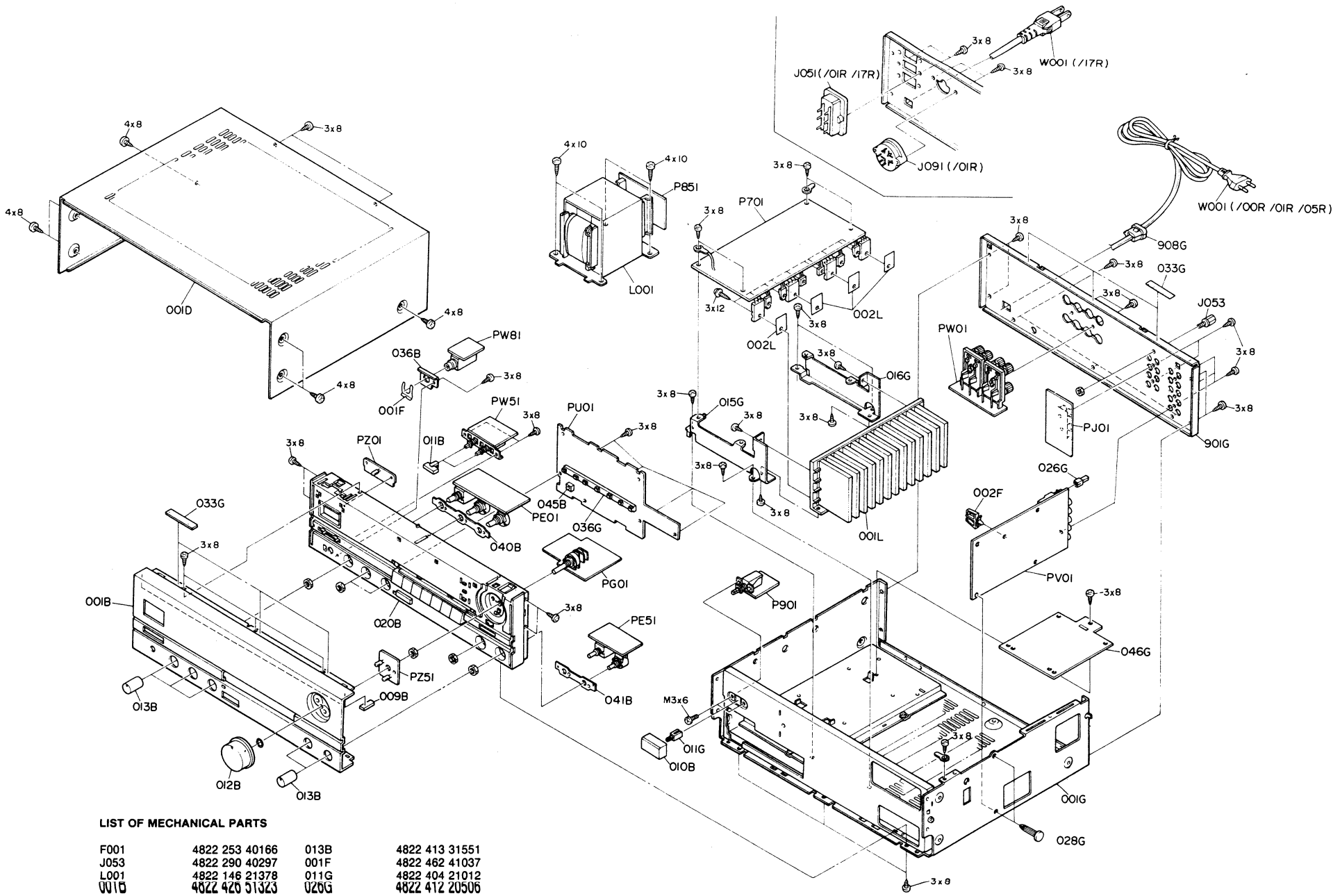
SCHEMATIC DIAGRAM

| | | |

RN13 RN11 RN18 RN17 RN12 RN10 RN16	R
RZ01 RZ02 RW81 RW82	
CN02~CN04 CW01~CW04	C
C824 C853 C854 C901 C738	
LN01 DN02 L001 . DN01	D-L
QN02 VZ01 S901 VZ52 VZ51 SW51	Q-S-V



EXPLODED VIEW



LIST OF MECHANICAL PARTS

F001	4822 253 40166	013B	4822 413 31551
J053	4822 290 40297	001F	4822 462 41037
L001	4822 146 21378	011G	4822 404 21012
001B	4822 420 51323	026G	4822 412 20506
010B	4822 410 25479	036G	4822 255 40888
011B	4822 410 24665	908G	4822 532 60948
012B	4822 413 31549	(Philips badge)	4822 454 40107

Note: Only the parts provided with a Service codenumber are available as Service spare parts.

CE01, CE02	Cap. electr. 10 µF 50V	4822 124 22571
CE09, CE10, CN01	Cap. electr. 47 µF 50V	4822 124 22276
CE11, CE12	Cap. electr. 47 µF 25V	4822 124 22698
CE13, CE14, CU03	Cap. electr. 10 µF 50V	4822 124 22571
CE19, CE20	Cap. electr. 3.3 µF 50V	4822 124 22696
CE25, CE26, CG02, CG04	Cap. electr. 4.7 µF 50V	4822 124 22274
CN02, CN04	Cap. electr. 1 µF 50V	4822 124 41543
CN03	Cap. electr. 0.47 µF 50V	4822 124 22273
CU04	Cap. electr. 0.022 µF 50V	4822 122 40491
CU05	Cap. 0.1F	4822 124 41592
CU06	Cap. electr. 4.7 µF 50V	4822 124 22274
CU07	Cap. electr. 1 µF 50V	4822 124 41543
CU10	Cap. electr. 100 µF 10V	4822 124 90353
CV13,CV14	Cap. electr. 4.7 µF 50V	4822 124 22274
C407, C408	Cap. electr. 1000 µF 6.3V	4822 124 22694
C415, C416	Cap. electr. 10 µF 50V	4822 124 22571
C419, C420	Cap. electr. 4.7 µF 50V	4822 124 22274
C421, C422	Cap. electr. 51 µF 10V	4822 124 22278
C701	Cap. electr. 10 µF 50V	4822 124 22571
C702, C711, C712	Cap. electr. 10 µF 50V	4822 124 22571
C713, C714	Cap. electr. 470 µF 35V	4822 124 41541
C717÷C720	Cap. electr. 10 µF 63V	4822 124 22693
C721÷C724	Cap. electr. 10 µF 50V	4822 124 22571
C803, C804	Cap. electr. 8200 µF 63V	4822 124 22691
C805, C806	Cap. electr. 2200 µF 35V	4822 124 22695
C809, C810	Cap. electr. 100 µF 10V	4822 124 90353
C811, C812	Cap. electr. 100 µF 25V	4822 124 41535
C815	Cap. electr. 100 µF 35V	4822 124 41536
C816	Cap. electr. 47 µF 25V	4822 124 22698
C817	Cap. electr. 47 µF 10V	4822 124 22275
C821, C822	Cap. cer. 5 PF 50V	4822 122 31447
C901	Cap. cer. 0.01 µF 400V	4822 122 32276
C901/05R	Cap. cer. 0.01 µF 400V	4822 122 40305

RE21, RE22	Potm. tone bass, treble 20K	4822 101 30574
RE51	Potm. balance vol. 50K	4822 101 30575
RG19	Potm. master vol. 50K	4822 102 30466
RN17	Res. metal 470 Ω 1/4W	4822 116 53423
RW81, RW82	Res. wirew. 330 Ω 1W	4822 111 50474
R743÷R746	Res. metal 33 Ω 1/6W	4822 116 80956
R751, R752	Potm. trimm. 470 Ω VAR.	4822 100 11426
R753÷R756	Res. fuse 10 Ω 1/4W	4822 115 90166
R757, R758	Res. metal 2.2K 1W	4822 116 60346
R759÷R762	Res. safety 10 Ω 1/6W	4822 111 91291
R763, R764	Res. safety 220 Ω 1W	4822 116 60246
R765÷R768	Res. metal 4.7 Ω 1/6W	4822 116 80955
R769÷R772	Res. metal 0.18 Ω 5W	4822 116 80153
R785,R786	Res. metal 220 Ω 1W	4822 116 60246
R785,R786/05R	Res. metal 2.2 Ω 1W	4822 116 60435
R787, R788	Res. safety 10 Ω 2W	4822 111 90726
R805, R806	Res. safety 200 Ω 1/2W	4822 111 41080
R814	res. safety 220 Ω 1W	4822 116 60246
R815÷R819	Res. metal 1 Ω 1/4 W	4822 116 52976

C3419 Y	4822 130 60117
2SA970 (GR)	4822 130 42949
2SA970 GR OR BL	4822 130 42951
2SA1048 Y OR GR	4822 130 60107
2SA1145 O OR Y	4822 130 42999
2SA1301 R OR O	4822 130 60109
2SA1306 O OR Y	4822 130 61358
2SB1274 Q, R	4822 130 61359
2SC2240 GR OR BL	4822 130 43233
2SC2240 (GR)	4822 130 43231
2SC2458 Y OR GR	4822 130 60839
2SC2705 O OR Y	4822 130 43283
2SC2878 A OR BR	4822 130 43819
2SC3280 R OR O	4822 130 60116
2SC3298 0 OR Y	4822 130 61362
2SD1913 Q, R	4822 130 61363
2SK369 BL	4822 130 42839

LC4966	4822 209 83804
LC6554H-3842	4822 209 73955
LC7821	4822 209 72357
NJM-2068-DD	4822 209 73064
NJM4558D-D	4822 209 83631
NJM7805FA	4822 209 83824
TA7317P	4822 209 83312

BR82	4822 130 81093
HSS81TD	4822 130 80837
LT3D8B RED	4822 130 80326
MTZJ3.6A	4822 130 81157
RD5.6JB2, MTZJ5.6B	4822 130 33948
RL103E, DSF10C	4822 130 32508
1SS176, MA165, 1SS254	4822 130 33305

-MISCELLANEOUS-

F001	fuse T 2.5A 250V	4822 253 40166
JJ01, JJ02	jack 4P	4822 265 30512
JV01	jack 4P	4822 267 20348
JV02	jack 6P	4822 266 30285
JW01	speaker terminal	4822 266 30279
JW02	speaker terminal	4822 266 30281
JW81	headphone jack	4822 267 30617
J053	ground terminal	4822 290 40297
LU01	coil	4822 157 53836
L001	transf, mains	4822 146 21387
LN01	relay DC 48V	4822 280 91103
L401, L402 /00R	choke coil 320 µH	4822 156 11019
L701, L702	choke coil	4822 157 51739
SE01	rot. switch	4822 273 80336
SE51	rot. switch	4822 273 20307
SU01÷SU09	push switch	4822 276 12455
SW51	push switch	4822 276 12506
S401	push switch	4822 276 20468
S901	push switch	4822 276 12026
VZ01, VZ51, VZ52	lamp 12V 75mA	4822 134 40886
XU01	cer. filter 4MHz	4822 242 72221

PHILIPS

SI Wichtig für die Werkstatt!

Nummer: 51Ø03

Sachgebiet: Audio Geräte AC 51

Datum: Ø5.Ø2.9Ø

Service Information

Betrifft: HiFi-Verstärker 7ØFA88Ø
Korrektur zum Service Manual

Verteiler: intern und extern

1. Schaltbild Seite 2Ø, 21

- Die Widerstände R 791 (R 792) sind von Anfang an nicht eingebaut worden; d.h. R 715, R 716 und Pin 8/Q 7Ø1 liegen an +17,2 V. R 717, R 718 und Pin 4/Q 7Ø1 liegen an -17,2 V

- Die Verbindung zwischen C 8Ø9 und C 81Ø liegt an Masse.

2. Printdarstellung Seite 18, 19

- Die Kondensatoren C 727, C 8Ø7, C 8Ø8, C 813,C 814, C 821, C 822 und die Dioden D 7Ø3 - D 7Ø6 sind nicht eingebaut worden. Diese Bauteile sind im Schaltbild nicht gezeichnet.

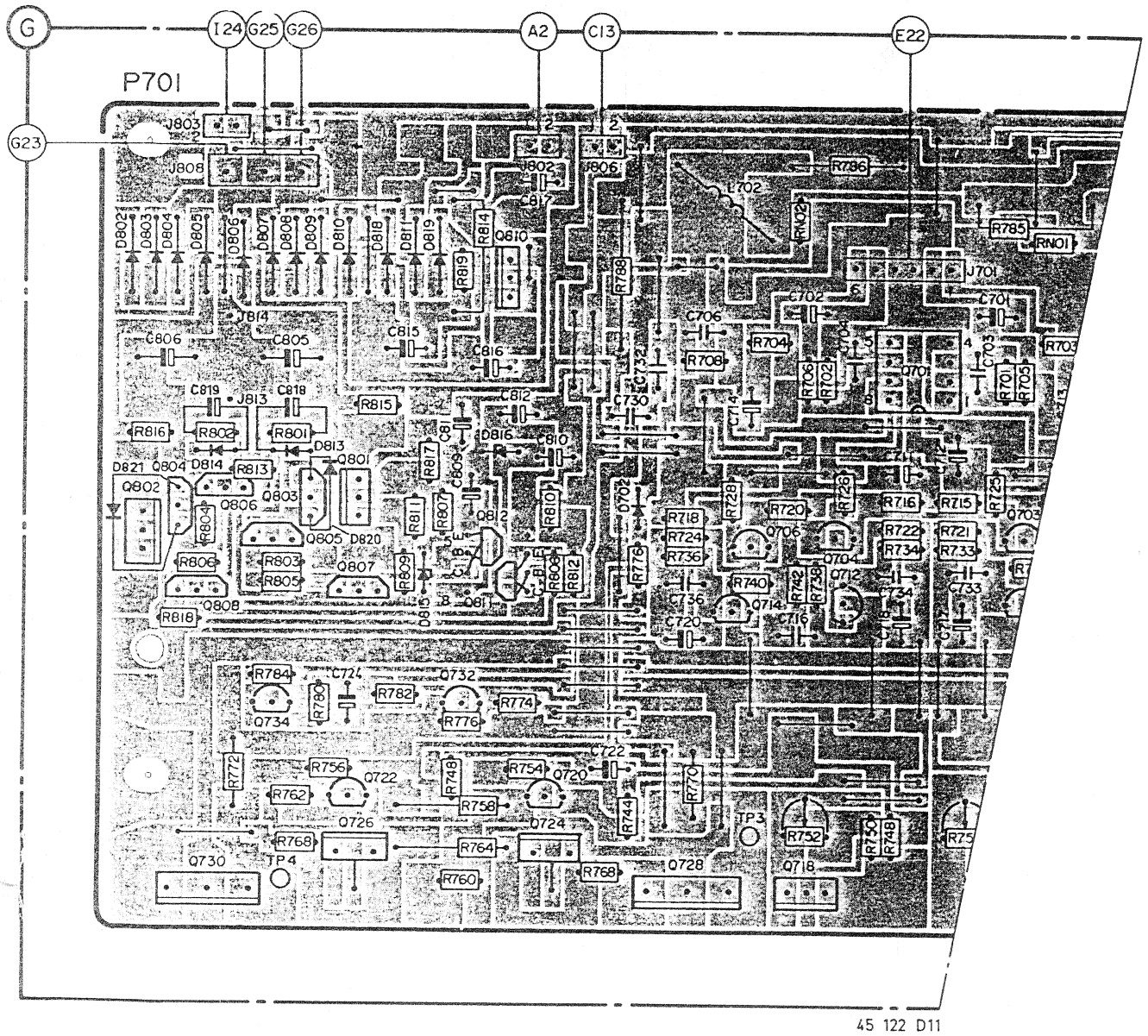
- C 818 und C 819 sind auf dem Print an anderer Stelle montiert; die richtige Position zeigt Fig. 1.

- C 724, D 82Ø und D 821 sind hinzuzufügen; s. Fig.1.

- D 817 ist in eine Drahtbrücke zu ändern; s. Fig. 1.

Service Service

SUPPLY/POWER AMPLIFIER



45 122 D11

Fig.1